

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P452447

Luminaire Tested: **GALN-SA3B-827-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452447  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3B-827-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12778 lumens  
Efficiency: N/A  
Efficacy: 105.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G2

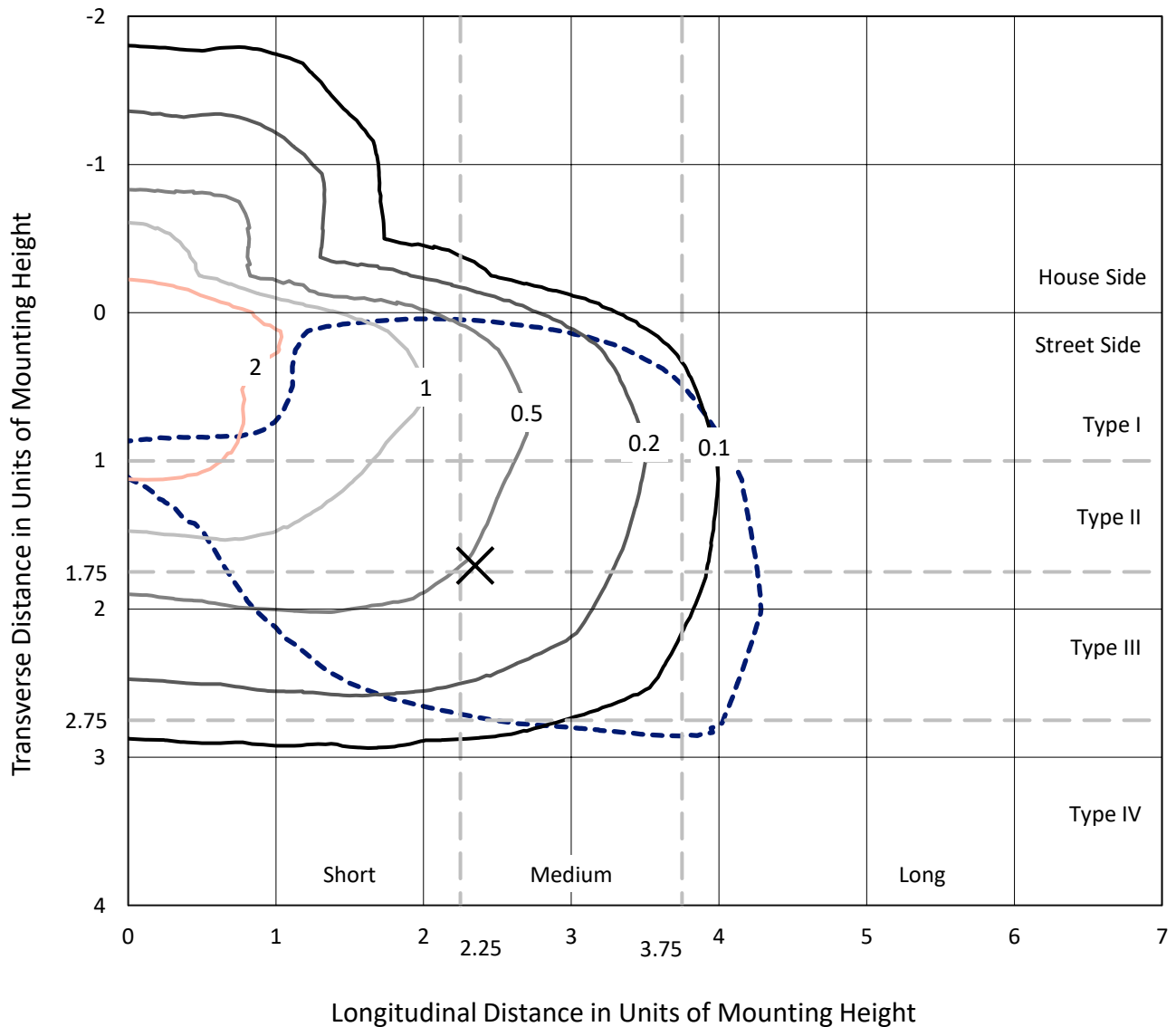
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

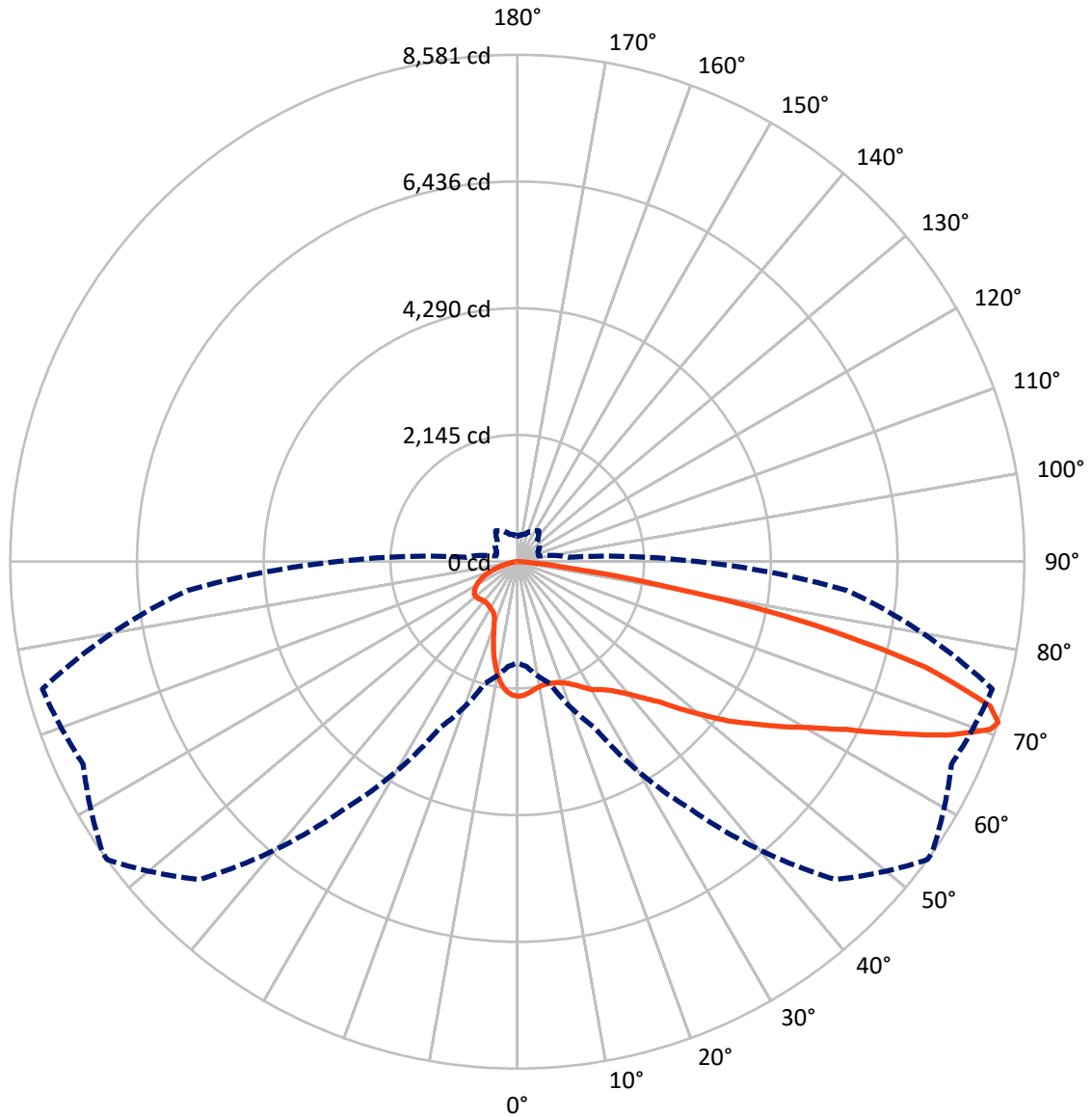
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2307.0	0.0	2307.0
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	10471.0	0.0	10471.0
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	12778.0	0.0	12778.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	203.2	1.6
10°-20°	536.5	4.2
20°-30°	893.2	7.0
30°-40°	1320.8	10.3
40°-50°	1860.4	14.6
50°-60°	2491.1	19.5
60°-70°	3139.8	24.6
70°-80°	2144.5	16.8
80°-90°	188.6	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	12778.0	100.0
0°-180°	12778.0	100.0

**Coefficient of Utilization**



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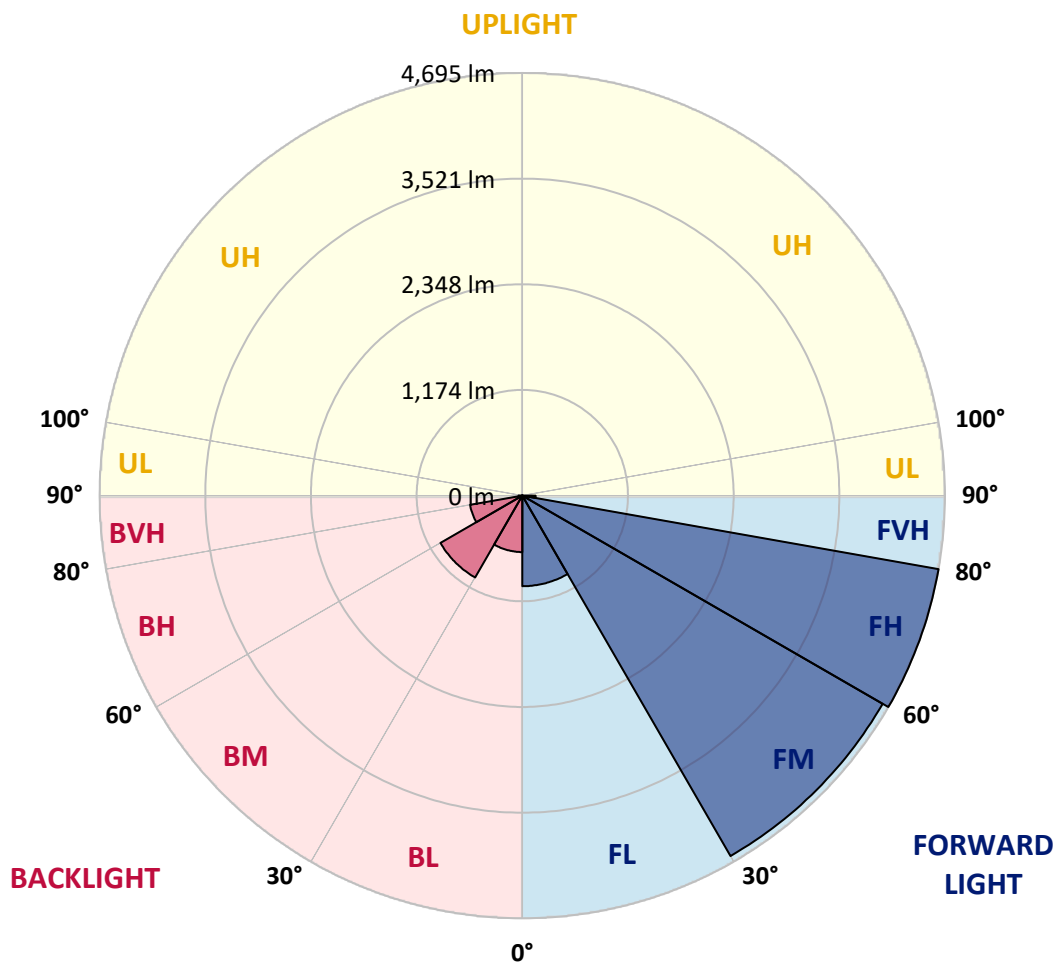
CATALOG NUMBER: GALN-SA3B-827-U-T3R

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1005.8	7.9			
FM	(30°-60°)	4622.6	36.2			
FH	(60°-80°)	4695.1	36.7			G2/5000
FVH	(80°-90°)	147.4	1.2			G2/225
BL	(0°-30°)	627.0	4.9	B2/1000		
BM	(30°-60°)	1049.6	8.2	B2/2500		
BH	(60°-80°)	589.2	4.6	B2/1000		G2/1000
BVH	(80°-90°)	41.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2279.8	2279.8	2279.8	2279.8	2279.8	2279.8	2279.8	2279.8	2279.8	2279.8	2279.8
2.5°	2202.5	2212.8	2215.6	2222.5	2237.0	2248.7	2260.5	2259.1	2275.6	2282.5	2288.8
5°	2104.5	2107.2	2117.6	2131.4	2156.9	2189.4	2221.1	2221.8	2262.5	2295.0	2310.8
7.5°	2032.7	2041.7	2048.6	2063.1	2090.0	2125.2	2175.6	2179.7	2252.2	2316.4	2350.2
10°	1985.8	1996.1	2003.7	2021.6	2048.6	2087.9	2142.4	2150.0	2244.6	2350.2	2409.5
12.5°	1943.0	1953.3	1960.2	1983.7	2018.9	2067.2	2128.6	2137.6	2247.3	2389.5	2474.4
15°	1969.2	1977.5	1974.7	1981.6	2005.1	2060.3	2134.1	2143.1	2257.7	2427.5	2538.6
17.5°	2085.8	2092.7	2070.0	2043.7	2032.7	2073.4	2151.4	2161.1	2278.4	2466.8	2604.2
20°	2257.7	2276.3	2226.6	2168.0	2114.8	2120.3	2187.3	2197.6	2307.4	2506.2	2671.1
22.5°	2481.3	2495.1	2434.4	2337.8	2239.8	2189.4	2241.1	2247.3	2350.9	2557.3	2744.3
25°	2744.3	2752.6	2668.4	2544.1	2402.6	2307.4	2315.0	2326.0	2422.7	2615.2	2809.2
27.5°	2999.7	3025.9	2928.6	2776.7	2590.4	2431.6	2416.4	2423.3	2500.7	2647.7	2854.0
30°	3302.7	3300.6	3197.8	3021.8	2783.0	2566.9	2512.4	2511.0	2542.8	2663.5	2886.5
32.5°	3544.3	3572.6	3471.8	3279.9	3003.1	2707.0	2578.6	2575.9	2575.2	2691.2	2934.8
35°	3819.0	3823.1	3730.6	3537.4	3241.3	2883.0	2671.1	2657.3	2641.5	2750.5	3000.4
37.5°	4064.7	4084.0	3999.1	3782.4	3475.2	3065.9	2798.1	2789.2	2740.8	2853.4	3105.3
40°	4256.6	4271.1	4220.0	4013.6	3705.8	3263.3	2959.6	2943.1	2884.4	3021.8	3245.4
42.5°	4319.4	4349.1	4369.1	4267.6	3970.8	3497.3	3158.4	3137.7	3092.9	3277.1	3406.9
45°	4324.2	4371.1	4476.7	4481.6	4237.2	3777.6	3390.3	3375.8	3372.4	3604.3	3634.0
47.5°	4287.6	4335.2	4512.6	4608.6	4474.7	4060.5	3725.1	3702.3	3704.4	4008.8	3888.7
50°	4199.3	4255.9	4471.2	4690.0	4660.3	4354.6	4078.5	4070.9	4113.7	4470.5	4153.0
52.5°	4032.9	4101.3	4428.4	4741.1	4798.4	4607.9	4480.2	4458.8	4567.2	4971.6	4442.2
55°	3572.6	3675.4	4271.7	4769.4	4929.5	4850.1	4841.9	4880.5	5024.1	5518.3	4760.4
57.5°	3332.4	3409.7	3931.5	4774.2	5095.2	5131.8	5264.3	5273.9	5525.2	6098.8	5120.0
60°	3201.2	3269.6	3745.1	4742.5	5326.4	5480.3	5696.4	5730.9	6014.5	6727.5	5492.7
62.5°	3086.6	3145.3	3633.3	4632.7	5587.3	5997.3	6256.1	6272.7	6570.2	7421.9	5860.6
65°	2816.8	2883.7	3408.3	4523.0	5812.3	6643.3	6998.8	6979.5	7161.7	8021.0	6091.2
67.5°	2453.0	2537.9	2987.9	4144.1	5923.4	7349.4	7835.3	7811.2	7745.6	8413.7	6157.4
70°	1988.5	2034.1	2450.3	3489.0	5479.6	7720.1	8495.9	8470.3	8107.3	8465.5	5844.1
71°	1711.0	1782.1	2133.5	3099.1	5110.4	7606.9	8580.8	8573.9	8108.0	8322.6	5608.0
72.5°	1335.6	1379.1	1689.6	2401.3	4343.5	6963.6	8370.9	8397.2	7932.0	7925.8	5121.4
75°	844.8	864.2	1060.2	1413.6	2383.3	4931.6	7145.8	7216.9	7043.0	6487.3	3808.6
77.5°	490.7	515.6	635.0	833.1	1029.8	2676.7	5113.1	5190.4	4893.6	3571.9	1559.2
80°	285.7	313.4	418.3	483.8	472.8	993.2	2603.5	2735.3	2119.0	902.1	437.6
82.5°	158.7	177.4	294.0	294.7	251.9	324.4	819.3	857.2	604.6	363.7	178.8
85°	115.3	130.5	189.8	171.9	120.8	139.4	285.1	298.9	244.3	153.2	58.0
87.5°	40.7	58.0	104.2	82.8	33.1	29.0	82.1	67.0	62.1	42.8	13.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2279.8	2279.8	2279.8	2279.8	2279.8	2279.8	2279.8	2279.8	2279.8	2279.8	2279.8
2.5°	2292.2	2293.6	2286.7	2274.3	2261.8	2246.0	2228.0	2214.2	2208.0	2207.3	2206.6
5°	2317.1	2320.5	2294.3	2255.6	2212.8	2160.4	2115.5	2064.4	2051.3	2030.6	2036.8
7.5°	2357.1	2355.0	2303.3	2221.1	2121.0	2009.9	1916.0	1861.5	1804.9	1789.0	1789.7
10°	2414.4	2401.3	2303.3	2150.7	1983.7	1818.7	1687.6	1604.8	1559.9	1522.6	1508.8
12.5°	2475.1	2442.0	2281.2	2052.0	1807.0	1604.8	1463.9	1352.1	1323.1	1292.8	1293.5
15°	2533.1	2477.9	2237.7	1913.3	1616.5	1376.3	1239.6	1172.7	1163.7	1167.2	1166.5
17.5°	2585.6	2503.4	2171.4	1758.7	1394.2	1180.3	1107.8	1112.6	1136.8	1154.0	1156.1
20°	2638.7	2518.6	2072.7	1551.6	1184.4	1061.6	1064.3	1102.3	1138.9	1162.3	1165.8
22.5°	2689.1	2525.5	1956.8	1351.4	1032.6	1011.2	1051.9	1092.6	1128.5	1151.3	1154.7
25°	2722.2	2509.6	1792.5	1142.3	958.0	993.2	1036.0	1070.5	1100.9	1124.4	1129.9
27.5°	2731.2	2458.6	1588.9	973.2	923.5	976.0	1015.3	1040.8	1064.3	1086.4	1090.5
30°	2726.4	2383.3	1365.2	873.8	903.5	955.9	986.3	1005.0	1033.3	1050.5	1054.0
32.5°	2718.8	2295.7	1132.0	820.7	886.9	937.3	955.3	971.8	971.1	964.2	969.1
35°	2721.5	2190.7	942.8	788.9	872.4	923.5	938.7	918.0	858.6	855.9	853.1
37.5°	2736.0	2087.2	805.5	766.8	864.8	921.4	929.7	834.5	782.0	757.9	751.6
40°	2773.3	1966.4	715.1	750.3	864.2	937.3	889.0	792.4	691.6	644.7	641.2
42.5°	2823.0	1847.7	659.8	739.9	872.4	961.5	872.4	733.0	623.3	595.7	591.5
45°	2896.8	1711.7	629.5	735.1	884.9	970.4	866.9	689.5	595.7	573.6	573.6
47.5°	2980.4	1582.0	612.9	731.6	900.7	964.2	817.9	675.7	582.5	585.3	598.4
50°	3063.2	1469.5	600.5	724.0	914.5	960.8	797.9	675.0	586.0	621.2	644.7
52.5°	3159.1	1390.1	585.3	711.6	914.5	938.7	791.7	688.8	595.7	606.0	616.4
55°	3275.1	1365.2	566.0	684.7	898.0	883.5	788.2	708.9	602.6	578.4	582.5
57.5°	3428.3	1405.3	547.3	650.9	860.0	826.2	786.8	714.4	586.7	566.7	562.5
60°	3606.4	1484.7	541.8	616.4	808.2	777.2	778.6	698.5	564.6	543.9	547.3
62.5°	3731.3	1532.3	538.4	590.1	751.6	723.3	758.5	679.2	554.9	537.0	540.4
65°	3731.3	1474.3	506.6	550.1	678.5	658.5	734.4	655.0	542.5	521.8	518.4
67.5°	3589.8	1305.2	458.3	490.1	597.7	584.6	700.6	626.0	523.9	508.0	499.7
70°	3221.2	989.8	397.6	419.7	495.6	507.3	657.1	586.7	492.8	473.5	461.1
71°	3059.0	862.1	372.0	383.8	456.2	473.5	636.4	570.1	479.0	451.4	429.3
72.5°	2746.4	726.1	333.4	338.2	390.0	421.0	592.9	538.4	452.8	413.4	388.6
75°	2086.5	530.1	268.5	265.7	288.5	334.1	501.8	479.7	396.9	343.7	329.2
77.5°	901.4	288.5	200.9	202.9	196.0	253.3	394.8	412.1	340.3	279.5	266.4
80°	273.3	166.3	137.4	140.1	131.1	169.8	278.2	323.0	273.3	217.4	199.5
82.5°	140.1	99.4	93.9	92.5	83.5	95.9	168.4	220.9	195.3	136.0	120.1
85°	60.7	53.1	46.2	44.9	39.3	34.5	60.0	110.4	103.5	75.9	72.5
87.5°	15.2	13.8	9.0	8.3	4.8	0.7	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)